

# AN INTEGRATED BACK-END INTEGRATED CIRCUIT MANUFACTURING ASSEMBLY

## ABSTRACT OF THE DISCLOSURE

5 An integrated back-end integrated circuit (IC) manufacturing assembly is disclosed. In one embodiment, the present invention has a front-of-line portion comprising a plurality of integrated sub-stations for operating on a first plurality of die-strips on an in-line basis to produce a second plurality of die-strips. The present embodiment further comprises an end-of-line portion coupled to the front-of-line portion and  
10 comprising a plurality of integrated sub-stations for operating on the second plurality of die-strips on an in-line basis to produce die-strip components. The present embodiment also comprises an in-line test portion coupled to the end-of-line portion for testing the die-strip components. The present embodiment further comprises a finish portion coupled to the in-line test portion and comprising a  
15 plurality of integrated sub-stations operating on tested die-strip components. In addition, camera systems perform automated visual inspection of dies on the die-strip and maintain a database that can be used for automated reject management.